Connecting Timing Belts
Solutions for Field Installation
BRECOflex CO., L.L.C. offers three different technologies for installation of conveyor belts with prepared ends. No time consuming equipment tear down is required when using the following technologies:

1. Field Welder - a self contained heat welding press
2. Belt Lock - mechanical connection kit comprised of plates and inserts to join AT10/T10 belts
3. Connecting Kit - mechanical connection kit comprised of plates and inserts to fasten ATN belts
4. PinLock - mechanical connection kit comprised of lateral screws through the teeth

A comparison chart of the four technologies can be found on page six.
Connecting Timing Belts
Solutions for Field Installation

Field Welder - Connecting Kit for Field Assembly

BRECOflex CO., L.L.C. offers Field Welders for installation and replacement of endless polyurethane timing belts in machinery and equipment on location.

Purchase prepared belting from BRECOflex CO., L.L.C. already die cut to length with the appropriate finger pattern and weld on site.

- No costly machine disassembly necessary.
- Minimize down time - replacement time 30-45 minutes.
- Only 120V or 240V 60Hz required (no water cooling).
- Tensile strength of the field welded belt equals factory weld strength.
- Available for all standard pitches, including ATN, HTD, self-tracking, and double sided belts.
- Available in widths from 12mm to 150mm. Various Widths can be welded by using filler material or a tooth plate set for each belt pitch / width. Lengths over 900mm.
- Custom top plates can accommodate profiles and many backing materials (contact Applications Engineering for details).

Ordering Example

50 T10/1000 FW
Belt ends prepared for field welding

Timing Belt Lock - AT10 / T10

BRECOflex CO., L.L.C. offers a mechanical timing belt connection technology for T10 and AT10 pitch timing belts in conveyor applications.

The Timing Belt Locks are compatible with standard AT10 and T10 belts and pulleys for direct replacement. Timing Belt Locks are available in widths of 32, 50, 75 and 100mm.

- Designed for rapid belt assembly on the machinery using just a screw driver.
- Belt ends are factory machined to accept hardware consisting of 10 connecting plates, 10 tooth inserts, and the requisite screws.
- Spare parts kits are available to change out the inserts in applications with frequent reassembly.

Ordering Example

75 T10 DC/8400 DC
Belt ends prepared for timing belt lock (kit included, not installed)

75 T10 DC Timing Belt Lock Kit
Belt Lock kit includes connection plates, tooth inserts and requisite screws
Connecting Timing Belts
Solutions for Field Installation

ATN - Connecting Kit for Field Assembly

BRECOflex CO., L.L.C. offers mechanical ATN Connecting Kits for rapid belt assembly and disassembly in the field directly on the conveyor system.

- Mechanical hardware connection to clamp together finger stamped belt ends.
- Hardware consists of high strength inserts, steel top plates, and the requisite screws.
- Connection technology has option to allow ATN profiles to attach in joined area.

Version “C” (standard)

- Belt thickness = 4.5mm, without any self-tracking guide.
- Number of connection elements = 10.
- Not suitable for mounting profiles in connecting kit area.
- Threaded hole size = M2.5.
- Top plates are 0.9mm above the belt back.

Version “DC” (deep connection - recessed top plates)

- Use when product must lay flat across the connecting kit area.
- Belt thickness = 5.4mm (ATN10, ATN12.7) and 8.0mm (ATN20) without any self-tracking guide.
- Number of connection elements = 10 (ATN10, ATN12.7) and 9 (ATN20).
- Threaded hole size = M2.5 (ATN10, ATN12.7) and M3 (ATN20).

Version “DC-PRO” (deep connection and profiles)

- A version of the flush connecting kit DC above but additionally suitable for mounting up to 5 profiles in connecting kit area.
- Belt pitches, thickness, number of connection elements and threaded hole sizes comparable to version “DC”.

Ordering Example

50 ATN10/1000C
Belt prepared for connecting kit (Kit included, not installed)

50 ATN10/1000DC
Belt prepared for connecting kit (Kit included, not installed)

50 ATN10DC - ATN Connecting Kit Spare Parts Kit
(Spare parts include connection palates, tooth inserts and requisite screws)
PinLock - Connecting Kit for Field Assembly

BRECOflex CO., L.L.C. offers mechanical PinLock Connecting Kits for rapid belt assembly and disassembly in the field directly on the conveyor system.

- Precise water-jet finger pattern
- Hardware consists of stainless threaded pins
- Connection may be assembled/disassembled several times
- Possible with back covers or profiles
- Available with 6 pins (PL6) or 10 pins (PL10)
## Connecting Timing Belts
### Solutions for Field Installation

<table>
<thead>
<tr>
<th>Width (mm)</th>
<th>T10</th>
<th>T20</th>
<th>AT10</th>
<th>AT20</th>
<th>ATN10/ATN10K6</th>
<th>ATN12.7/ATN12.7K6</th>
<th>ATN20</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>25</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>DC</td>
<td>25</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>DC - PRO</td>
<td>25</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>FW</td>
<td>25</td>
<td>1100</td>
<td>1750</td>
<td>2125</td>
<td>-</td>
<td>1000</td>
<td>1000</td>
</tr>
<tr>
<td>PL6</td>
<td>25</td>
<td>-</td>
<td>400</td>
<td>200</td>
<td>500</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>PL10</td>
<td>25</td>
<td>300</td>
<td>700</td>
<td>400</td>
<td>1000</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>C</td>
<td>32</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>DC</td>
<td>32</td>
<td>500</td>
<td>-</td>
<td>550</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>DC - PRO</td>
<td>32</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>FW</td>
<td>32</td>
<td>1408</td>
<td>2240</td>
<td>2720</td>
<td>3400</td>
<td>1280</td>
<td>1280</td>
</tr>
<tr>
<td>PL6</td>
<td>32</td>
<td>-</td>
<td>500</td>
<td>300</td>
<td>600</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>PL10</td>
<td>32</td>
<td>400</td>
<td>900</td>
<td>500</td>
<td>1200</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>C</td>
<td>50</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>750</td>
<td>750</td>
<td>-</td>
</tr>
<tr>
<td>DC</td>
<td>50</td>
<td>750</td>
<td>-</td>
<td>750</td>
<td>-</td>
<td>750</td>
<td>750</td>
</tr>
<tr>
<td>DC - PRO</td>
<td>50</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>750</td>
<td>750</td>
</tr>
<tr>
<td>FW</td>
<td>50</td>
<td>2200</td>
<td>3500</td>
<td>4250</td>
<td>5330</td>
<td>2000</td>
<td>2000</td>
</tr>
<tr>
<td>PL6</td>
<td>50</td>
<td>-</td>
<td>800</td>
<td>400</td>
<td>1000</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>PL10</td>
<td>50</td>
<td>600</td>
<td>1500</td>
<td>800</td>
<td>2000</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>C</td>
<td>75</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1150</td>
<td>1150</td>
<td>-</td>
</tr>
<tr>
<td>DC</td>
<td>75</td>
<td>1000</td>
<td>-</td>
<td>1000</td>
<td>-</td>
<td>1150</td>
<td>1150</td>
</tr>
<tr>
<td>DC - PRO</td>
<td>75</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1150</td>
<td>1150</td>
</tr>
<tr>
<td>FW</td>
<td>75</td>
<td>3300</td>
<td>5250</td>
<td>6375</td>
<td>8000</td>
<td>3000</td>
<td>3000</td>
</tr>
<tr>
<td>PL6</td>
<td>75</td>
<td>-</td>
<td>1200</td>
<td>600</td>
<td>1500</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>PL10</td>
<td>75</td>
<td>900</td>
<td>2200</td>
<td>1200</td>
<td>3000</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>C</td>
<td>100</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1500</td>
<td>1500</td>
<td>1500</td>
</tr>
<tr>
<td>DC</td>
<td>100</td>
<td>1500</td>
<td>-</td>
<td>1500</td>
<td>-</td>
<td>1500</td>
<td>1500</td>
</tr>
<tr>
<td>DC - PRO</td>
<td>100</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1500</td>
<td>1500</td>
</tr>
<tr>
<td>FW</td>
<td>100</td>
<td>400</td>
<td>7000</td>
<td>8500</td>
<td>10660</td>
<td>4000</td>
<td>4000</td>
</tr>
<tr>
<td>PL6</td>
<td>100</td>
<td>-</td>
<td>1600</td>
<td>800</td>
<td>2000</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>PL10</td>
<td>100</td>
<td>1200</td>
<td>3000</td>
<td>1600</td>
<td>4000</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Note: Field welded belts (FW) are available for all belt pitches and in-between widths. For a complete list of strength numbers please see the polyurethane timing belt specifications charts in catalog B212. Additional pitches are possible with PinLock such as self-tracking versions.
## Field Connection Technologies - Comparison

<table>
<thead>
<tr>
<th></th>
<th>Availability of Product Range</th>
<th>Strength</th>
<th>Short Belt Length Possible</th>
<th>Available Widths</th>
<th>Low Initial Cost</th>
<th>Low Recurring Cost</th>
<th>Suitable for Multiple Plant Locations</th>
<th>Suitable for Reassembly</th>
<th>Ease of Assembly and Disassembly</th>
<th>Use with Profiles in Connection Areas</th>
<th>Use with Backings</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>★★★</td>
<td>★★★★★</td>
<td>★★★★★</td>
<td>★★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
</tr>
<tr>
<td>DC</td>
<td>★★</td>
<td>★★</td>
<td>★★★</td>
<td>★★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
</tr>
<tr>
<td>DC-PRO</td>
<td>★★</td>
<td>★★</td>
<td>★★★</td>
<td>★★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
</tr>
<tr>
<td>FW</td>
<td>★★★☆</td>
<td>★★★★★</td>
<td>★★★</td>
<td>★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
</tr>
<tr>
<td>PL</td>
<td>★★</td>
<td>★★</td>
<td>★★★</td>
<td>★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
<td>★★★★</td>
</tr>
</tbody>
</table>

**Legend:**
- ★★★ Most Suitable
- ★★ Suitable
- ★ Acceptable
- ★★ Not Applicable

---

**Connecting Timing Belts**

**Solutions for Field Installation**
Contact Us

222 Industrial Way West, Eatontown, NJ 07724
Tel: 732-460-9500 • Fax: 732-542-6725
www.brecoflex.com • email: info@brecoflex.com

Regional Sales Offices:

Atlanta (770)317-8745 Dallas (214)476-5650 Miami (770)317-8745 Richmond (804)387-5760
Bay Area (661)713-0121 Denver (303)470-7226 Milwaukee (908)461-6995 Seattle (503)781-3631
Baltimore (804)387-5760 Detroit (908)433-0036 Minneapolis (908)461-6973 Salt Lake City (303)470-7226
Boston (603)496-5833 Ft.Wayne (808)461-1168 Nashville (732)757-6647 San Antonio (214)476-5650
Buffalo (412)600-5632 Grand Rapids (908)461-1168 New York (732)829-7773 Toled (908)433-0036
Charlotte (908)461-3937 Houston (214)476-5650 Philadelphia (732)829-7773 Toronto (416)476-7107
Chicago (908)461-6995 Indianapolis (908)461-2344 Phoenix (480)961-3846 Mexico City +52 1 55 45335835
Cincinnati (908)461-2344 Las Vegas (480)961-3846 Portland (503)781-3631 Monterrey +52 1 55 40840778
Cleveland (412)600-5632 Los Angeles (661)713-0121 Pittsburgh (412)600-5632 Guadalajara +52 1 55 40949053

Copyright 2019 BRECOflex CO., L.L.C. • BRECO®, BRECOFLEX® & ATN® are registered trademarks of BRECO Antriebstechnik GmbH • ARC-POWER® is a registered trademark of BRECOflex CO., L.L.C. • Kevlar® is a registered trademark of DuPont Patents Pending • ESBAND® is a registered trademark of Max Schlatterer GmbH & Co. KG Patents Pending. Specifications are subject to change without prior notice.

All recommendations for the use of the products described herein and all other data or information set forth in this publication, whether concerning such products or otherwise, are furnished without any guarantee, warranty representations or inducement of any kind whether expressed or implied, including but not limited to warranties of merchantability and fitness for a particular purpose. BRECOflex CO., L.L.C. expressly disclaims liability under any theory, including without limitation, contract negligence, misrepresentation or breach of any obligation relating to the recommendation, data or information set forth herein. Readers and customers are encouraged to conduct their own test before using any product. Read its label and all related instructions. BRECOflex CO., L.L.C. reserves the right to make changes in the technical and dimensional specifications of its products without prior notice. Responsibility for expenses incurred as a result of product changes or discontinuance of a product lies solely with the purchaser.